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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/800,549	03/15/2004	Thomas J. Ribarich	IR-2459 (2-3924)	9792
7590 07/18/2006 OSTROLENK, FABER, GERB & SOFFEN			EXAMINER	
			HAN, YOUNGHUIE JESSICA	
11001110000	1180 Avenue of the Americas New York, NY 10036-8403		ART UNIT	PAPER NUMBER
			2838	
			DATE MAILED: 07/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/800,549	RIBARICH ET AL.	
Offic Action Summary	Examiner	Art Unit	
	Y. J. Han	2838	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statur. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 23 c This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr		
Disposition of Claims			
4) ☐ Claim(s) 1,4-12,14-23,25 and 26 is/are pending 4a) Of the above claim(s) is/are withdrays Simple Claim(s) 4-12 and 14-19 is/are allowed. 6) ☐ Claim(s) 1,20-23,25 and 26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or control of the control of	awn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examin 10)☒ The drawing(s) filed on 27 June 2005 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the E	a) \square accepted or b) \square objected to e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicatority documents have been received (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)	_		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1, 23, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Albrecht et al (5,654,881) in view of Hwang (5,894,243).

Albrecht et al discloses a power converter for delivering power to a load, comprising: a single stage buck-boost converter (10) for converting a rectified input signal; a switching output stage (10b) for converting the DC signal to a switched signal delivered to the load; and a controller (22) coupled to the buck-boost converter and the output stage for controlling the buck-boost converter and the output stage; wherein the buck-boost converter includes a switch (18-1,18-2) driven by the controller; drive signals (G1, G2) provided from the controller to the switch, the drive signals being operable to switch the switch to draw an input current

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substantially in phase (see figure 2) with an input voltage; a feedback signal (22a) from the buckboost converter to the controller for contributing to determining when the switched is switched. "For power factor correction applications, this push-pull converter, by transitioning between the Boost and Buck operating modes, is able to shape the input current." The reference further discloses a circuitry for maintaining the output power constant by receiving the indication of output power and responsively controlling the drive signals provided to the switch to control an on-time of the switch. See column 3, lines 57 thru column 4, line 11. Albrecht et al, however, does not disclose a controller comprising a single IC coupled to both the buck-boost converter and the output stage. Hwang teaches that the use of an integrated circuit comprising various circuit elements for controlling the buck converter or boost converter is well known in the art. See Figs. 4, 18, and the integrated circuits 100 and 200. Thus, it would have been obvious to one having ordinary skill in the art to employ the single IC to integrate components in Albrecht et al. as taught by Hwang, to obtain the claimed invention for the purpose of achieving compact power converter package.

4. Claims 20-22 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Albrecht et al (5,654,881) in view of Hwang (5,894,243) as applied to claims 1, 23, and 25 above, and further in view of acknowledged prior art.

Albrecht et al, as modified by Hwang, discloses the invention substantially as claimed but does not disclose a switching full-bridge, an HID lamp, and a power factor correction circuit. The acknowledged prior art clearly teaches that use of such features is well known in the art (see Background of the Invention section and figure 5 which show all features). Therefore, it would

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have been obvious to one having ordinary skill in the art to employ such features of the acknowledged prior art in Albrecht et al, as modified by Hwang, to obtain the claimed invention for the purpose of attaining a high efficiency.

Response to Arguments

5. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

6. Claims 4-12 and 14-19 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y. J. Han whose telephone number is 571-272-2078. The examiner can normally be reached on Mon-Fri 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl Easthom can be reached on 571-272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).